SHARP

LC-26SA1E
LC-26SV1E
LC-32SA1E
LC-32SV1E

LCD COLOUR TELEVISION
LCD-FARBFERNSEHGERÄT
TÉLÉVISION COULEUR À ÉCRAN À CRISTAUX LIQUIDES (LCD)
TELEVISORE A COLORI LCD
LCD-KLEURENTELEVISIE
TELEVISIÓN EN COLOR LCD

OPERATION MANUAL
BEDIENUNGSANLEITUNG
MODE D'EMPLOI
MANUALE DI ISTRUZIONI
GEBRUIKSAANWIJZING
MANUAL DE MANEJO

ENGLISH
DEUTSCH
FRANÇAIS
ITALIANO
NEDERLANDS
ESPAÑOL

HDMI™ HIGH-DEFINITION MULTIMEDIA INTERFACE

HD ready

CE

SPECIAL NOTE FOR USERS IN THE U.K.

The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 13A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked ♡ or ◈ and of the same rating as above, which is also indicated on the pin face of the plug, must be used.
Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted.
In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut off the mains plug and fit an appropriate type.

DANGER:
The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner.
Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet, as a serious electric shock may occur.
To fit an appropriate plug to the mains lead, follow the instructions below:

IMPORTANT:
The wires in the mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this product may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
• The wire which is coloured blue must be connected to the plug terminal which is marked N or coloured black.
• The wire which is coloured brown must be connected to the plug terminal which is marked L or coloured red.
Ensure that neither the brown nor the blue wire is connected to the earth terminal in your three-pin plug.
Before replacing the plug cover make sure that:
• If the new fitted plug contains a fuse, its value is the same as that removed from the cut-off plug.
• The cord grip is clamped over the sheath of the mains lead, and not simply over the lead wires.
IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

OPERATION MANUAL

ENGLISH

ENGLISH

Dear SHARP customer

Thank you for your purchase of the SHARP LCD colour TV product. To ensure safety and many years of trouble-free operation of your product, please read the Important Safety Precautions carefully before using this product.

- The illustrations and on-screen displays in this operation manual are for explanation purposes and may vary slightly from the actual operations.
- The examples used throughout this manual are based on the LC-32SA1E model.
- The factory preset PIN is “1234”.

TV/AV only TV only AV only PC only : these icons used throughout this manual indicate the menu item can be set or adjusted only in the selected input mode.

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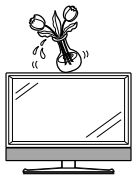
- The “HD ready” Logo is a trademark of EICTA.

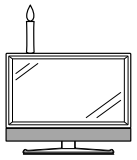
Important Safety Precautions

- Cleaning—Unplug the AC cord from the AC outlet before cleaning the product. Use a damp cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.
- Water and moisture—Do not use the product near water, such as bathtub, washbasin, kitchen sink, laundry tub, swimming pool and in a wet basement.
- Do not place vases or any other water-filled containers on this product.
  The water may spill onto the product causing fire or electric shock.



- Stand—Do not place the product on an unstable cart, stand, tripod or table. Doing so can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.

- When relocating the product placed on a cart, it must be moved with utmost care. Sudden stops, excessive force and uneven floor surface can cause the product to fall from the cart.
- Ventilation—The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.
- The LCD panel used in this product is made of glass. Therefore, it can break when the product is dropped or impact applied. If the LCD panel is broken, be careful not to be injured by broken glass.
- Heat sources—Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).



- To prevent fire, never place any type of candle or naked flames on the top or near the TV set.
- To prevent fire or shock hazard, do not place the AC cord under the TV set or other heavy items.
- Do not display a still picture for a long time, as this could cause an afterimage to remain.
- There is power consumption always if main plug is connected.

The LCD panel is a very high technology product, giving you fine picture details.
Due to the very large number of pixels, occasionally a few non-active pixels may appear on the screen as a fixed point of blue, green or red.
This is within product specifications and does not constitute a fault.

Precautions when transporting the TV

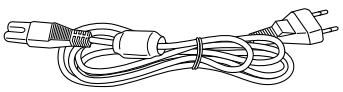
When moving the TV, it should always be carried by two people, using both hands, be careful not to apply pressure to the display.

Supplied accessories

Remote control unit (× 1)

Pages 4 and 5

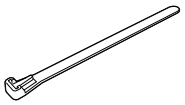
AC cord (× 1)



Product shape varies in some countries.

Page 3

Cable tie (× 1)

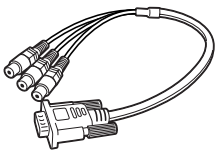


Page 3

Cable clamp (× 1)

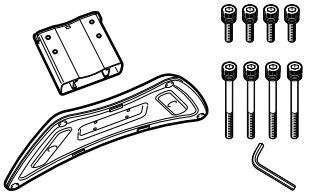
Page 3

3 RCA to 15-pin D-sub adapter (× 1)



Page 8

Stand unit (× 1)



Page 3

- "AA" size battery (× 2) ..... Page 4
- Operation manual (This publication)

Quick guide

Attaching the stand

Before performing work spread cushioning over the base area to lay the TV on, making sure the area is completely flat. This will prevent it from being damaged.

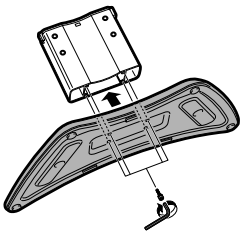
Before attaching (or detaching) stand, unplug the AC cord from the AC INPUT terminal.

1 Confirm the 8 screws supplied with the TV.

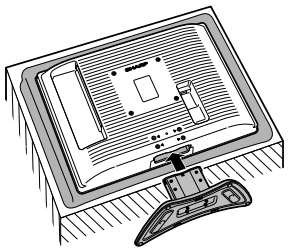
Short screws (×4)
(used in step 2)

Long screws (×4)
(used in step 4)

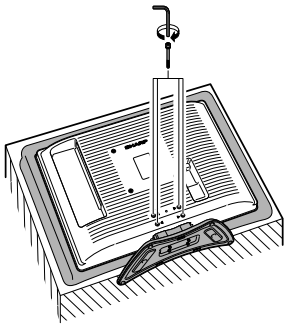
2 Attach the two parts of the stand unit to each other using the 4 short screws as shown.



3 Insert the stand into the opening on the bottom of the TV.



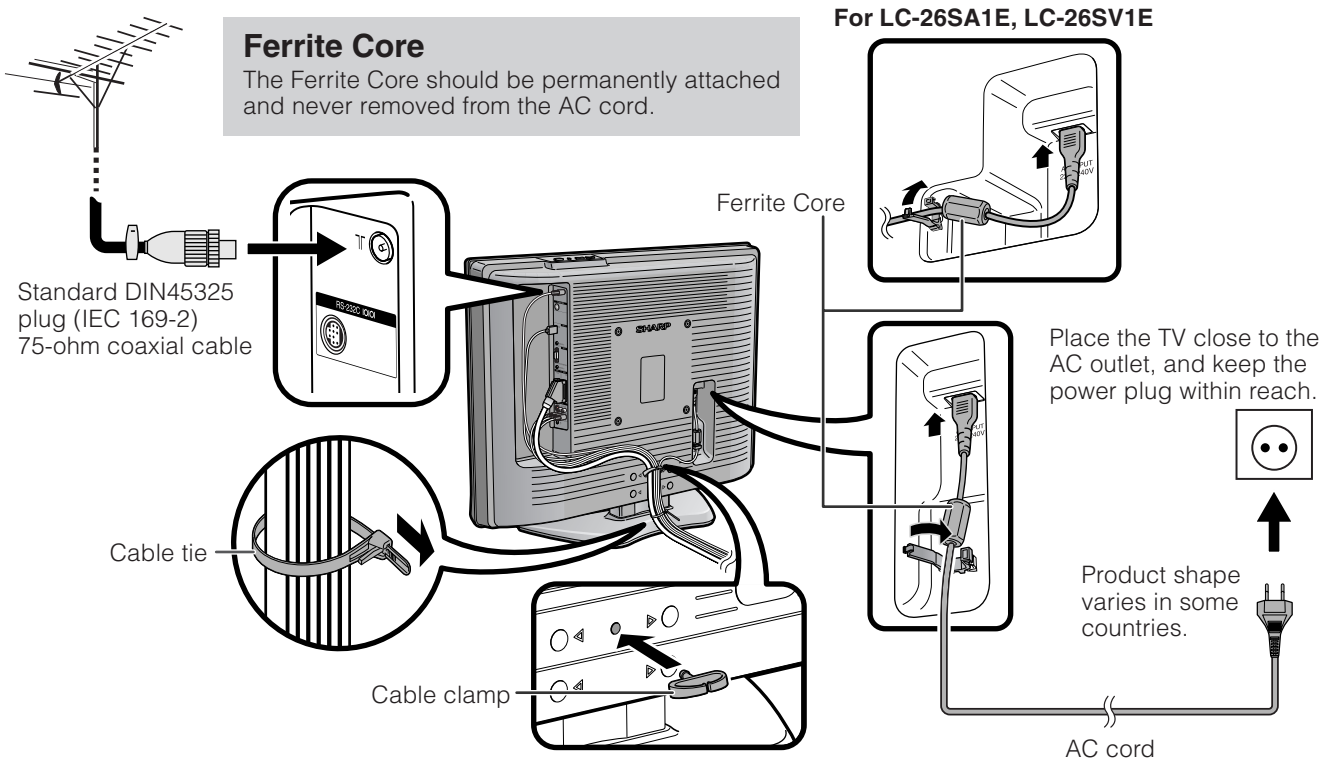
4 Insert and tighten the 4 long screws on the rear of the TV as shown.



NOTE

- To detach the stand, perform the above steps in reverse order.

Setting the TV


Ferrite Core
The Ferrite Core should be permanently attached and never removed from the AC cord.
For LC-26SA1E, LC-26SV1E
Ferrite Core
Standard DIN45325 plug (IEC 169-2) 75-ohm coaxial cable
Place the TV close to the AC outlet, and keep the power plug within reach.
Cable tie
Product shape varies in some countries.
Cable clamp
AC cord

Setting the TV on the wall

- **This TV should be mounted on the wall only with the wall mount bracket available from SHARP. (See page 23.) The use of other wall mount brackets may result in an unstable installation and may cause serious injuries.**
- **Installing the LCD Colour TV requires special skill that should only be performed by qualified service personnel. Customers should not attempt to do the work themselves. SHARP bears no responsibility for improper mounting or mounting that results in accident or injury.**
- You can ask a qualified service personnel about using an optional bracket to mount the TV to the wall.

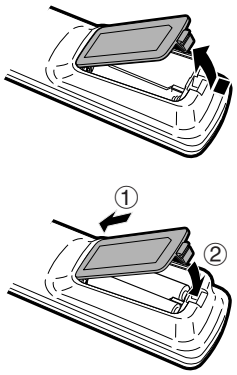
Inserting the batteries

Before using the TV for the first time, insert two “AA” size batteries (supplied). When the batteries become depleted and the remote control unit fails to operate, replace the batteries with new “AA” size batteries.

1 Hold in the tab on the battery cover and pull the cover towards the direction of the arrow.

2 Insert two supplied “AA” size batteries.
- Place batteries with their terminals corresponding to the (+) and (−) indications in the battery compartment.

3 Insert the smaller tab of the battery cover into the opening (①), and press down on the cover until it clicks in place (②).

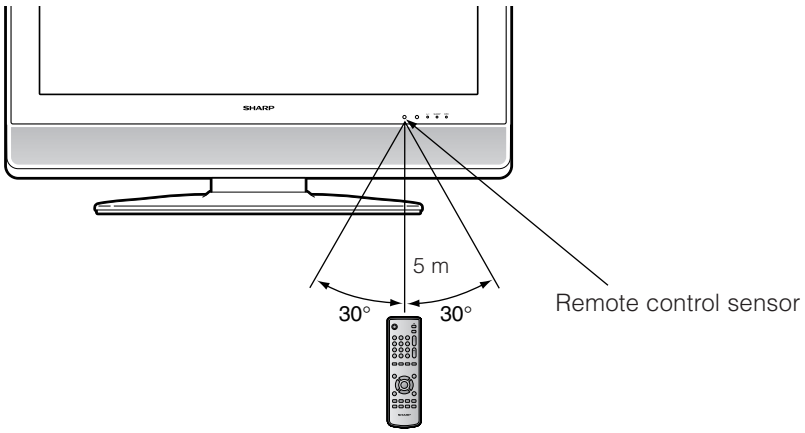


CAUTION

Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they have worn out. Chemicals that leak from batteries can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not be using the remote control unit for an extended period of time, remove the batteries from it.

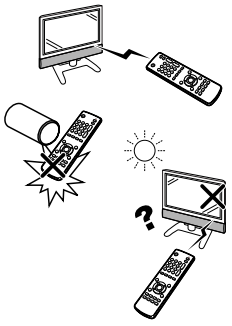
Using the remote control unit

Use the remote control unit by pointing it towards the remote control sensor. Objects between the remote control unit and sensor may prevent proper operation.

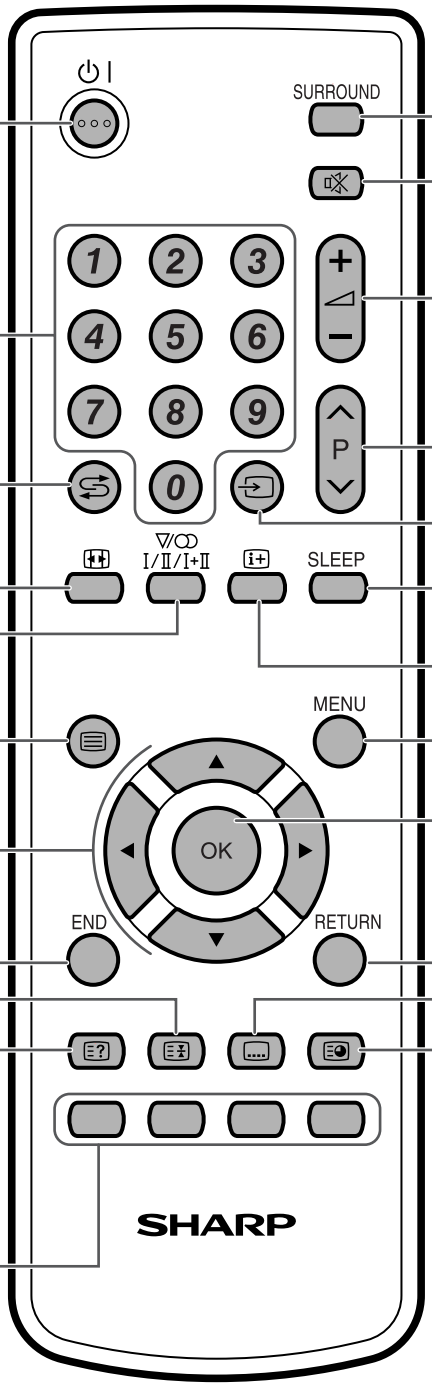


Cautions regarding the remote control unit

- Do not expose the remote control unit to shock.
  In addition, do not expose the remote control unit to liquids, and do not place in an area with high humidity.
- Do not install or place the remote control unit under direct sunlight. The heat may cause deformation of the unit.
- The remote control unit may not work properly if the remote control sensor of the TV is under direct sunlight or strong lighting. In such case, change the angle of the lighting or TV, or operate the remote control unit closer to the remote control sensor.



Remote control unit



⏻ | (Standby/On)
Enter standby mode or turn on the power.
(See page 7.)

0–9
Set the channel in TV mode.
Set the page in Teletext mode.

⇄ (Flashback)
Press to return to the previous image in normal viewing mode.

(WIDE MODE)
Select the wide mode.
(See page 19.)
Set the area of magnification in Teletext mode.
(See page 20.)

▽◯ I/II/I+II (Sound mode)
Select the sound multiplex mode.
(See below.)

(Teletext)
(See page 20.)

▲/▼/◀/▶ (Cursor)
Select a desired item on the setting screen.

END
Exit the menu screen.

(Freeze/Hold)
(See page 20.)

(Reveal hidden Teletext)
(See page 20.)

Colour (Red/Green/Yellow/Blue)
(See page 20.)

SURROUND
Switch the surround effects on and off.

(Mute)
Switch the sound on and off.

(+ / −) (Volume)
(+) Increase the volume.
(−) Decrease the volume.

P (∧/∨)
TV: Select the channel.
External: Switch to TV input mode.
Teletext: Move to the next/previous page.

(INPUT SOURCE)
Select an input source.
(TV, EXT1, EXT2, EXT3, EXT4, EXT5)
(See page 8.)

SLEEP
Set the sleep timer on (in units of 30 min. up to max. 2 hr. 30 min.) and off.

(Display information)
(See page 20.)

MENU
Display the MENU screen.
(See page 10.)

OK
Execute a command within the menu screen.
Display the programme list. (Except external input.)
(See page 7.)

RETURN
Return to the previous menu screen.

(Subtitle for Teletext)
(See page 20.)

(Subpage)
(See page 20.)

NICAM TV broadcasts selection

Signal	Selectable items
Stereo	NICAM STEREO, MONO
Bilingual	NICAM CH A, NICAM CH B, NICAM CH AB, MONO
Monaural	NICAM MONO, MONO

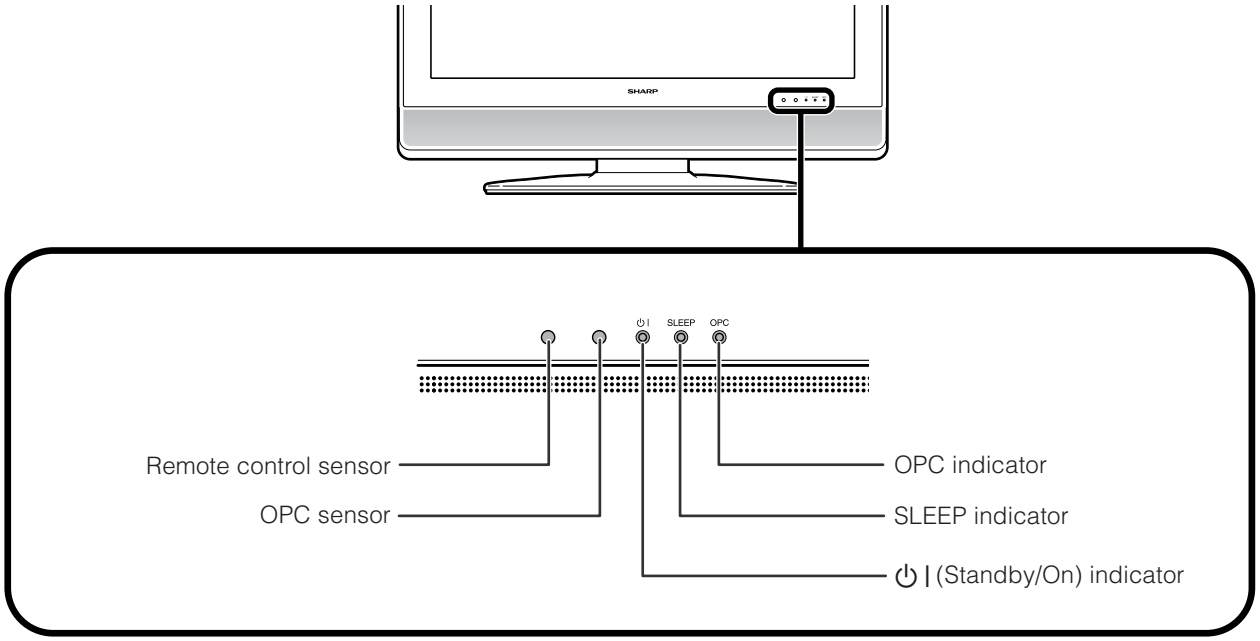
A2 TV broadcasts selection

Signal	Selectable items
Stereo	STEREO, MONO
Bilingual	CH A, CH B, CH AB
Monaural	MONO

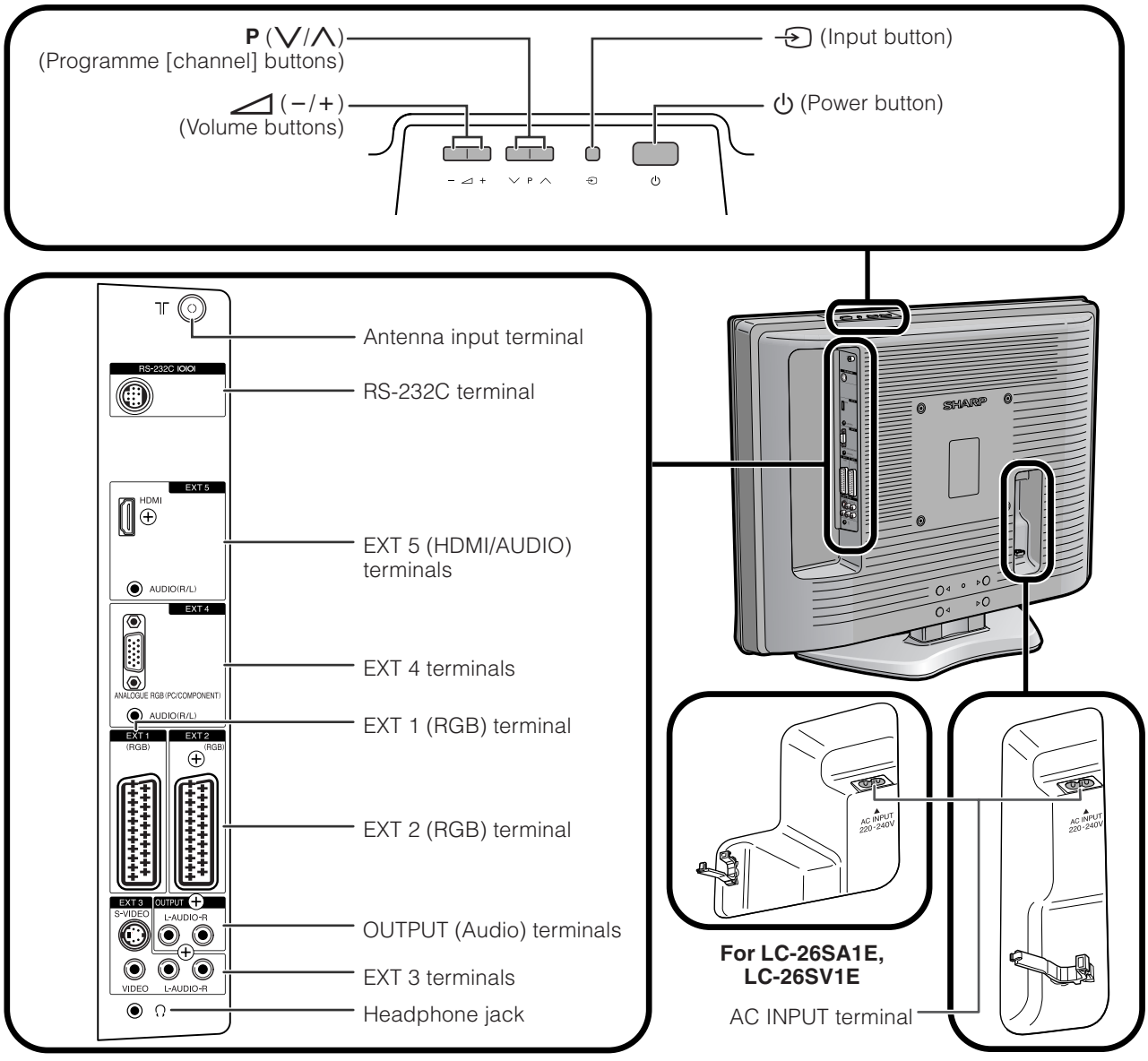
NOTE

- When no signal is input, the sound mode will display “MONO”.

TV (Front view)



TV (Rear view)



Turning on the power

Press ⏻ on the TV.

- The ⏻ | indicator on the TV changes from red to green.

Standby mode

Press ⏻ | on the remote control unit.

- The TV enters standby mode and the image on the screen disappears.
- The ⏻ | indicator on the TV changes from green to red.

Turning off the power

Press ⏻ on the TV.

- The ⏻ | indicator on the TV gradually turns off.
- When the TV is turned off by ⏻, you cannot turn on the power by pressing ⏻ | on the remote control unit.

Display status indicator

Off	Power off
Red	The TV is in standby mode.
Green	The TV is on.

NOTE

- If you are not going to use this TV for a long period of time, be sure to remove the AC cord from the power outlet.
- Weak electric power is still consumed even when ⏻ is turned off.

Initial auto installation

When the TV powers on for the first time after purchase, the initial auto installation is invoked. You can automatically set language, country and channels in successive operations.

NOTE

- The initial auto installation functions only once. If the initial auto installation is not completed, (ex: When menu screen disappeared by not operating for a few minutes, when the power shut down, etc.), try Auto Installation from the Setup menu. (See page 14.)
- The initial auto installation stops by pressing **RETURN**.

1 Setting the on-screen display language

① Press ▲/▼/◀/▶ to select the desired language listed on the screen.

② Press **OK** to enter the setting.

2 Setting the country or area

① Press ▲/▼/◀/▶ to select your country or area listed on the screen.

② Press **OK** to enter the setting.

- The programme auto search starts at the same time.

After this setting, auto search starts with the following order.

① Programme auto search
② Auto labelling
③ Auto sorting
④ Preset download

You do not need to do anything during the auto search.

⬇

The setup menu disappears and you can watch the programme on channel 1.

Using the programme list

You can also select the desired channel from programme list instead of using **0-9** numeric buttons or **P (∧/∨)**.

1 Press **OK** when no other menu screen is displayed. (Except external input.)

2 Press ▲/▼ to select the desired channel to tune in, and then press **OK**.

3 Press **END** to exit the Programme List.

Using external equipment

Setting the input source

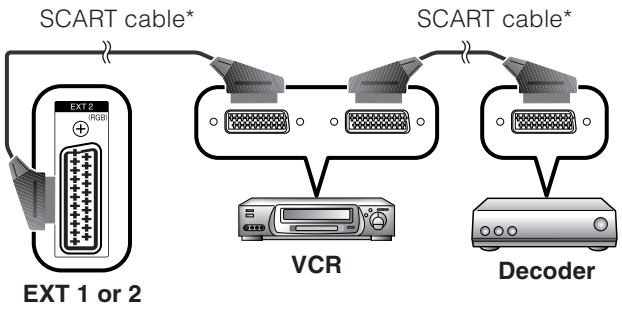
To view external source images, select the input source using ⏎ on the remote control unit or TV.

NOTE

- The cables marked with * are commercially available items.

Connecting a VCR

You can use the EXT 1 or 2 terminals when connecting a VCR and other audiovisual equipment.
If your VCR supports TV-VCR advanced AV Link systems, you can connect the VCR to the EXT 2 terminal of the TV using the fully-wired SCART cable.

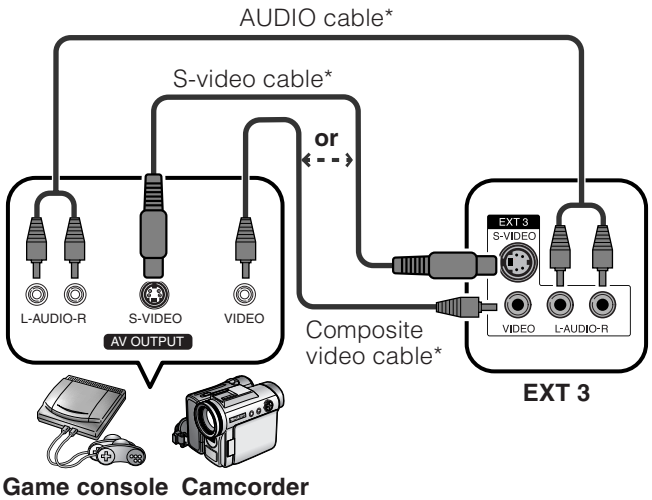


NOTE

- TV-VCR advanced AV Link systems may not be compatible with some external sources.
- TV-OUT from EXT1 is not outputted when EXT5 (HDMI) is selected as the input.

Connecting a game console or camcorder

A game console, camcorder and some other audiovisual equipment are conveniently connected using the EXT 3 terminals.

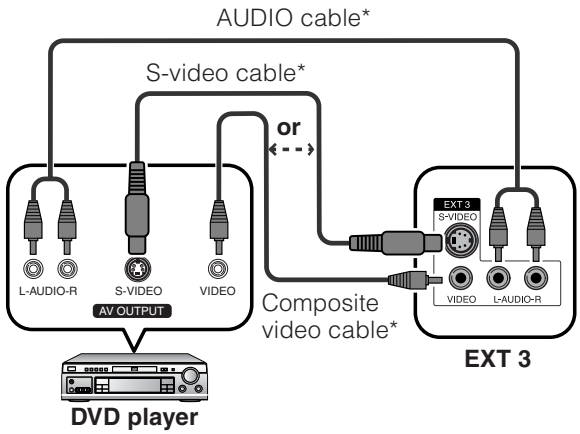


NOTE

- EXT 3: The S-VIDEO terminal has priority over the VIDEO terminals.

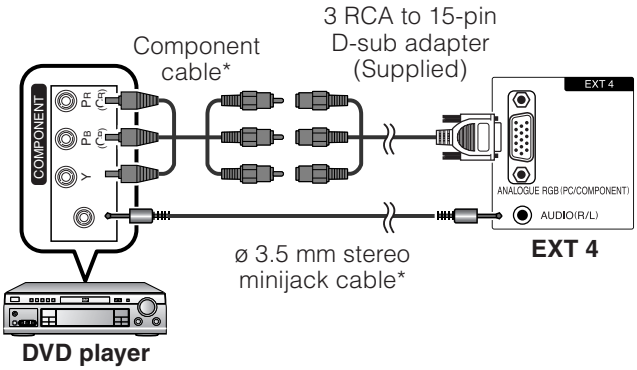
Connecting a DVD player

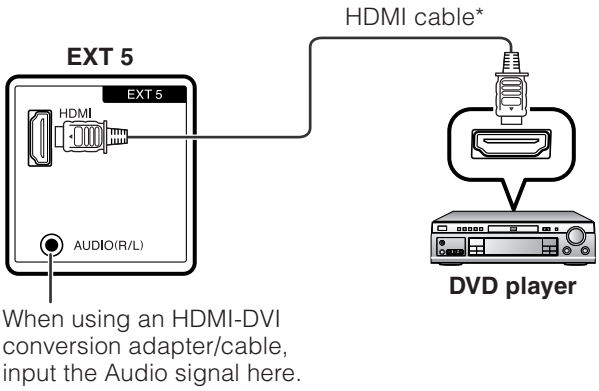
You can use the EXT 2, 3, 4 or 5 (HDMI) terminals when connecting to a DVD player and other audiovisual equipment.



NOTE

- EXT 3: The S-VIDEO terminal has priority over the VIDEO terminals.



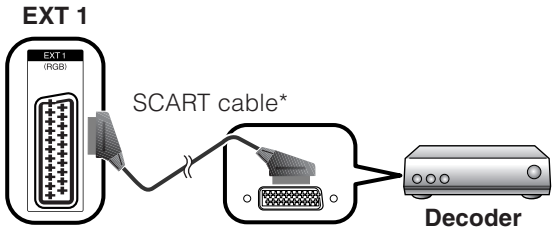


NOTE

- When connecting an HDMI-DVI conversion adapter/cable to the HDMI terminal, the image may not come in clearly.

Connecting a decoder

You can use the EXT 1 terminal when connecting a decoder and other audiovisual equipment.

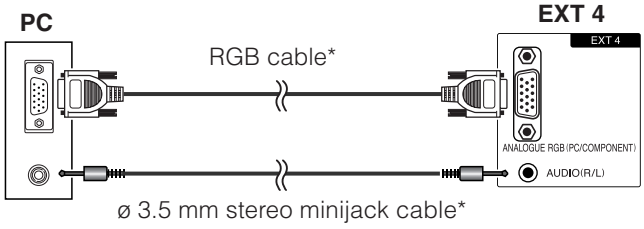


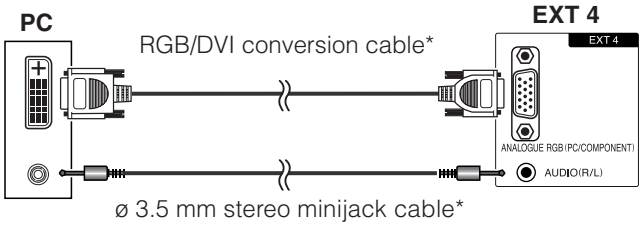
NOTE

- In cases when the decoder needs to receive signal from the TV, make sure to set “Decoder” to “EXT1” in the Programme Setup “Manual Adjust” menu. (See page 15.)
- Do not connect the decoder to the EXT 2 terminal.

Connecting a PC

Use the EXT 4 terminals to connect a PC.





NOTE

- The cables marked with * are commercially available items.
- The PC input terminals are DDC1/2B-compatible.
- Refer to page 23 for a list of PC signals compatible with the TV.
- Macintosh adaptor may be required for use for some Macintosh computers.
- When connecting to a PC, the correct input signal type is automatically detected.

Using AV Link function

This TV incorporates three typical AV Link functions for smooth connections between the TV and other audiovisual equipment.

One Touch Play

While the TV is in standby mode, it automatically turns on and plays back the image from the audiovisual source (e.g. VCR, DVD).

WYSIWYR (What You See Is What You Record)

When the remote control unit of the connected VCR has the WYSIWYR button, you can automatically start recording by pressing the WYSIWYR button.

Preset Download

Automatically transfers the channel preset information from the tuner on the TV to the one on the connected audiovisual equipment (e.g. VCR) via the EXT 2 terminal.

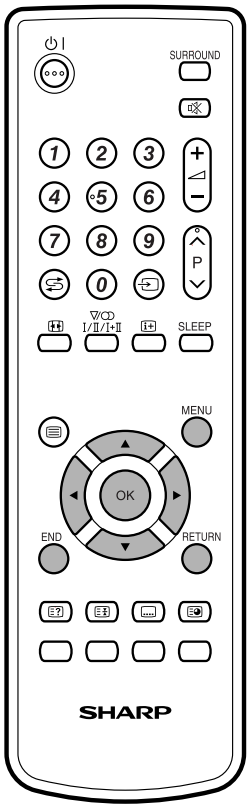
NOTE

- Refer to operation manuals of each external equipment for the details.
- Only works when the audiovisual equipment is connected to the EXT 2 terminal on the TV with AV Link via a fully wired SCART.
- The use of the AV Link function is only possible if the TV-set has enforced a complete auto-installation with the connected audiovisual equipment (page 7, Initial auto installation).
  The availability of the AV Link function depends on the audiovisual equipment used. Depending on the manufacturer and type of equipment used, it is possible that the described functions may be completely or partially unusable.

Menu operations

Menu operation buttons

Use the following buttons on the remote control unit to operate the menu.



MENU: Press to open or close the menu screen.

▲/▼/◀/▶: Press to select a desired item on the screen or adjust a selected item.

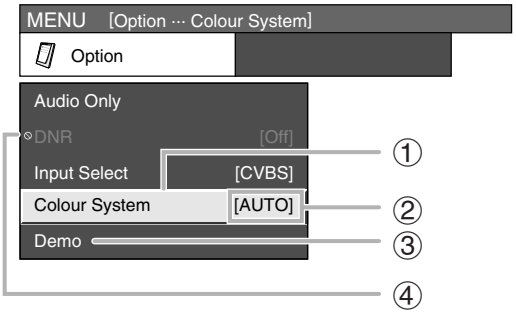
OK: Press to go to the next step or complete the setting.

RETURN: Press to return to the previous step.

END: Press to exit the menu item.

On-Screen Display

Example



① Item displayed in yellow
- This indicates the item currently selected.

② Item in brackets
- This indicates the current setting for the item.

③ Item displayed in white
- This indicates an item can be selected.

④ Item with ⃠ displayed in grey
- This indicates the item cannot be selected for various reasons.

NOTE
- Menu options differ in the selected input modes, but the operating procedures are the same.
- The screens in the operation manual are for explanation purposes (some are enlarged, others cropped) and may vary slightly from the actual screens.

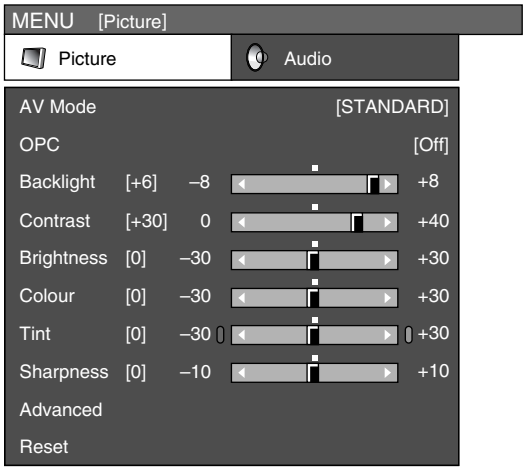
Common operations

Menu Operation: A

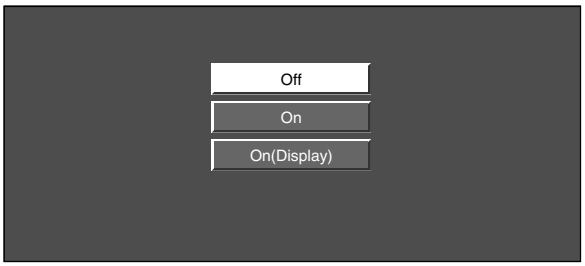
① Press **MENU** and the MENU screen displays.

② Press ◀/▶ to select the desired menu.

③ Press ▲/▼ to select the desired menu item, and then press **OK** (Example: AV Mode, OPC, etc).
- Select “Reset” to reset all adjustment items to the factory preset values.



④ Press ▲/▼/◀/▶ to select the desired item, and then press **OK**.



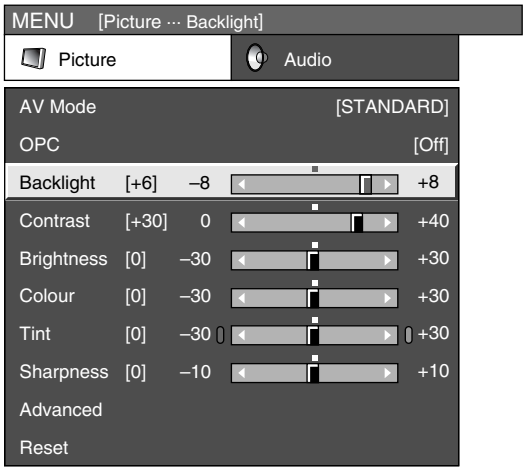
Menu Operation: B

① Press **MENU** and the MENU screen displays.

② Press ◀/▶ to select the desired menu.

③ Press ▲/▼ to select the desired menu item (Example: Backlight, Contrast, etc).

④ Press ◀/▶ to adjust the item to your desired position.
- Select “Reset” to reset all adjustment items to the factory preset values.



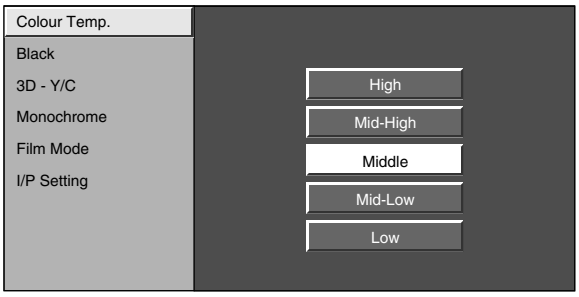
Menu Operation: C

① Press **MENU** and the MENU screen displays.

② Press ◀/▶ to select the desired menu.

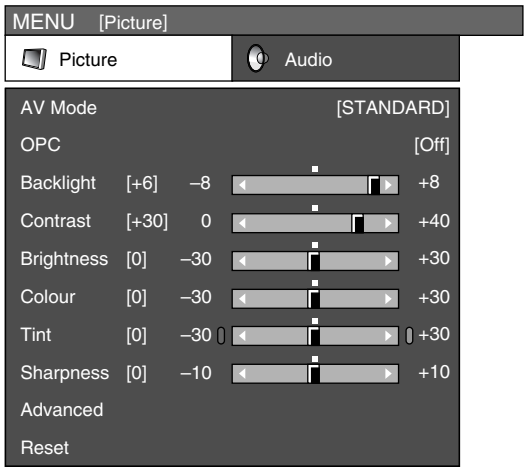
③ Press ▲/▼ to select the desired menu item, and then press **OK** (Example: Advanced, Demo, etc).

④ Press ▲/▼ to select the desired menu item, and then press **OK** (Example: Colour Temp., Black, etc).
- Select “Reset” to reset all adjustment items to the factory preset values.



⑤ Press ▲/▼/◀/▶ to select or adjust the desired item, and then press **OK**.

Picture menu



AV Mode

Menu Operation: A (page 11)

AV Mode gives you five viewing options to choose from to best match the system environment, which can vary due to factors like room-brightness, type of programme watched or the type of image input from external equipment.

Item

STANDARD: For a highly defined image in a normally bright room
SOFT*: Creates a softer image.
ECO*: Reduces power consumption.
USER: Allows the user to customise settings as desired. You can set the mode for each input source.
DYNAMIC*: For a clear-cut image emphasising high contrast for sports viewing

NOTE

- You can adjust the factory preset parameters given in “STANDARD”, “SOFT”, “ECO” and “DYNAMIC”. The parameters chosen affect each of the input sources.
- The items marked with * are only available for TV/AV input mode.

OPC

Menu Operation: A (page 11)

Automatically adjust the brightness of the screen.

Item

Off: The brightness is fixed at the value set in Backlight.
On: Automatically adjusts
On(Display): Displays the OPC effect on the screen while adjusting the brightness of the screen.

NOTE

- When set to “On”, the TV senses the surrounding light and automatically adjusts the backlight brightness. Make sure no object obstructs the OPC sensor, which could affect its ability to sense surrounding light.

Picture adjustments

Menu Operation: B (page 11)

Adjust the picture to your preference with the following picture settings.

Adjustment items for AV source

Selectable items	◀ button	▶ button
Backlight	The screen dims	The screen brightens
Contrast	For less contrast	For more contrast
Brightness	For less brightness	For more brightness
Colour	For less colour intensity	For more colour intensity
Tint	Skin tones become purplish	Skin tones become greenish
Sharpness	For less sharpness	For more sharpness

Adjustment items for PC source

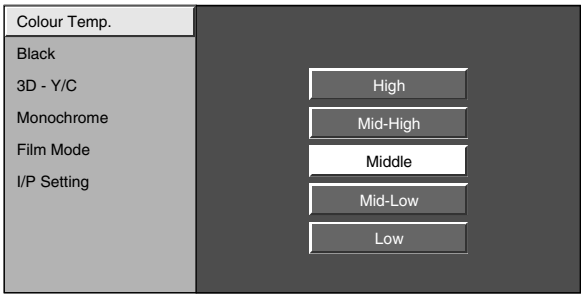
Selectable items	◀ button	▶ button
Backlight	The screen dims	The screen brightens
Contrast	For less contrast	For more contrast
Brightness	For less brightness	For more brightness
Red	For weaker red	For stronger red
Green	For weaker green	For stronger green
Blue	For weaker blue	For stronger blue

Advanced

TV/AV only

Menu Operation: C (page 11)

This TV provides various advanced functions for optimising the picture quality.



Colour Temp.

Adjust the colour temperature to give the best white image.

Item

High: White with bluish tone
Mid-High: Intermediate tone between High and Middle
Middle: Natural tone
Mid-Low: Intermediate tone between Middle and Low
Low: White with reddish tone

Black

For easier viewing, change the viewing depth by selecting a level for automatically adjusting the dark portion of an image.

3D-Y/C

Provide high quality images with minimal dot crawl and cross colour noise by detecting changes in the image.

Item

Off: No detecting
Standard: Normal adjustment
Fast: Set the optimum image quality for fast-moving images.
Slow: Set the optimum image quality for slow-moving images.

NOTE

- 3D-Y/C may not operate depending on the input signal type or noisy input signal.
- 3D-Y/C has even more effect on composite video signals (CVBS).

Monochrome

For viewing a video in monochrome.

Film Mode

Automatically detect a film-based source (originally encoded at 24/25 frames/second, depending on the vertical frequency), analyses it then recreates each still film frame for high-definition picture quality.

I/P Setting

Adjust the image and input signal can give you a more beautiful picture.

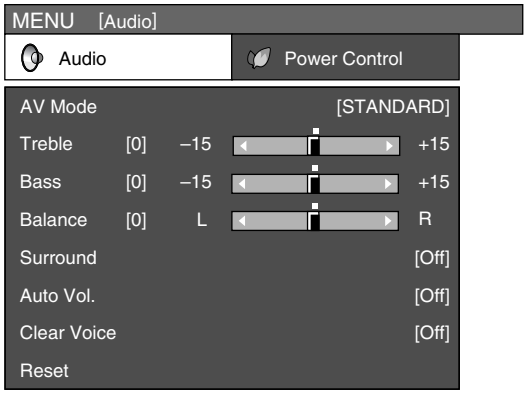
Item

Interlace: Display finely detailed images for TV or video, etc.
Progressive: Display smooth images for still images or graphics, etc.

NOTE

- The I/P Setting is set to “Progressive” when Film Mode is “On”.

Audio menu



AV Mode

Menu Operation: A (page 11)

This option links to AV Mode in the Picture menu. (See page 12.)

Audio adjustments

Menu Operation: B (page 11)

You can adjust the sound quality to your preference with the following settings.

Selectable items	◀ button	▶ button
Treble	For weaker treble	For stronger treble
Bass	For weaker bass	For stronger bass
Balance	Decrease audio from the right speaker	Decrease audio from the left speaker

Surround

Menu Operation: A (page 11)

Surround function allows you to enjoy realistic “live” sound.

NOTE

- You can also choose surround effects by pressing **SURROUND** on the remote control unit.

Auto Vol. TV/AV only

Menu Operation: A (page 11)

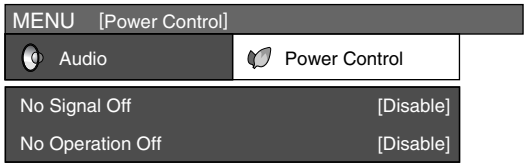
Different sound sources, fairly often do not have the same volume level, for example the changing from movie to the advertisements. The Automatic Volume Control (Auto Vol.) solves this problem and equalises the volume levels.

Clear Voice

Menu Operation: A (page 11)

This function emphasises speech voice against the background noise for more intelligibility. It is not recommended for music sources.

Power Control menu



No Signal Off

TV/AV only

Menu Operation: A (page 11)

When set to “Enable” the TV will automatically enter the standby mode if there is no signal input for 15 minutes.

- Five minutes before the TV enters standby mode, the remaining time displays every minute.

NOTE

- When a TV programme finishes, this function may not operate.

No Operation Off

TV/AV only

Menu Operation: A (page 11)

When set to “Enable” the TV will automatically enter the standby mode if no operations are performed for 3 hours.

- Five minutes before the TV enters standby mode, the remaining time displays every minute.

Power Management

PC only

Menu Operation: A (page 11)

When set, the TV will automatically enter the standby mode.

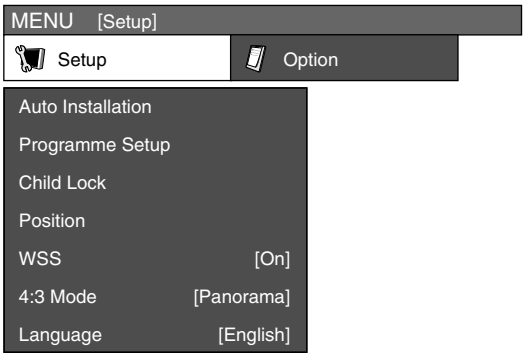
Item

Off:
- No power management
- Factory preset value.

Mode1:
- If there is no signal input for 8 minutes, the TV enters the standby mode.
- Even if you start using the PC and the signal inputs again, the TV stays in standby mode.
- The TV turns on again by pressing ⏻ on the TV or ⏻ | on the remote control unit. (See page 7.)

Mode2:
- If there is no signal input for 8 seconds, the TV enters the standby mode.
- When you start using the PC and the signal inputs again, the TV turns on.
- The TV turns on again by pressing ⏻ on the TV or ⏻ | on the remote control unit. (See page 7.)

Setup menu



Auto Installation

TV only

You can run Auto Installation again, even after setting up the preset channels.

1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

3 Press ▲/▼ to select “Auto Installation”, and then press **OK**.
If you have already set the PIN under “Child Lock”, enter it here.
- See page 16 for setting PIN.

4 Press ◀/▶ to select “Yes”, and then press **OK**.

5 You can set language and country the same as in the initial auto installation. Follow steps 1 and 2 on page 7.

Programme Setup

TV only

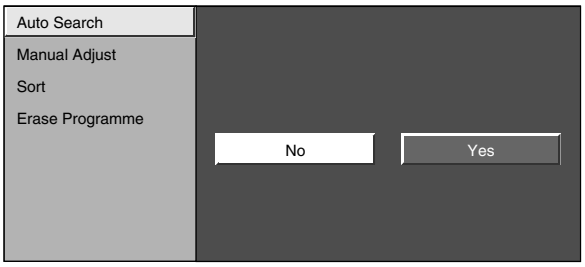
This section describes how to set up analogue TV channels manually.

1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

3 Press ▲/▼ to select “Programme Setup”, and then press **OK**.
If you have already set the PIN under “Child Lock”, enter it here.
- See page 16 for setting PIN.

4 Press ▲/▼ to select “Auto Search”, “Manual Adjust”, “Sort” or “Erase Programme”, and then press **OK**.



Auto Search

You can automatically search for and download TV channels by performing the procedure below. This is the same function as from programme auto search to preset download in Auto Installation.

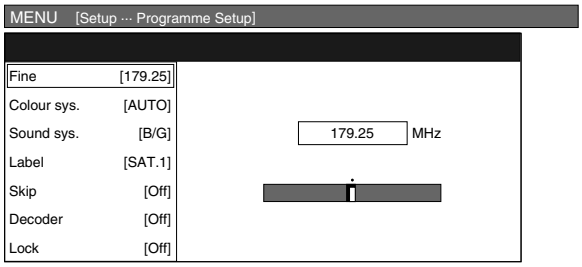
1 Repeat steps 1 to 4 in **Programme Setup**.

2 Press ◀/▶ to select “Yes”, and then press **OK**.

① Programme auto search
② Auto labelling
③ Auto sorting
④ Preset download

Manual Adjust

You can set some channel items manually.



1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

3 Press ▲/▼ to select “Programme Setup”, and then press **OK**.
If you have already set the PIN under “Child Lock”, enter it here.
- See page 16 for setting PIN.

4 Press ▲/▼ to select “Manual Adjust” and then press **OK**.

5 Press ◀/▶ to select “Yes”, and then press **OK**.

6 Press ▲/▼/◀/▶ to select the channel you want to edit, and then press **OK**.
- The selected channel information displays.

7 Press ▲/▼ to select the desired menu item, and then press **OK**.

8 Press ▲/▼/◀/▶ to select or adjust.

NOTE
- When you exit Programme Setup “Manual Adjust” menu, preset download automatically runs if you change information on that menu.

Fine

You can adjust the frequency to your desired position.

NOTE
- Adjust while checking the background picture as a reference.
- Instead of pressing ◀/▶ to adjust the frequency in step 8 above, you can set by directly entering the frequency number of the channel with **0**–**9**.

EXAMPLE
- 179.25 MHz: Press **1** → **7** → **9** → **2** → **5**.
- 49.25 MHz: Press **4** → **9** → **2** → **5** → **OK**.

Colour sys.

Select the optimum colour systems to receive. (AUTO, PAL, SECAM)

Sound sys. (Broadcasting system)

Select the optimum sound systems (Broadcasting systems) to receive. (B/G, D/K, I, L, L’)

Label

When a TV channel sends its Network Name, the Auto Installation detects the information and assigns a name to it. However, you can change individual channel names.

1 Repeat steps 1 to 7 in **Manual Adjust**.

2 Press ▲/▼/◀/▶ to select each character of the new name for the channel, and then press **OK**.

3 Repeat step 2 above until the name is fully spelt out.
- The name can be 5 characters or less.
- If a channel name is less than 5 characters, select “END”, then press **OK**.

Skip

Channels with “Skip” set to “On” are passed over when using **P**⋀/**P**⋁ even if selected while watching the image from the TV.

Decoder

When connecting a decoder to the unit, you need to select EXT1.

NOTE
- “Off” is factory preset value.

Lock

You can block the viewing of any channel.

NOTE
- See page 16 for setting PIN.
- When Lock is set to “On” for a channel, “Child lock has been activated.” displays, and the image and sound of the channel are blocked.
- When pressing **OK** while “Child lock has been activated.” displays, PIN input menu will display. Inputting the correct PIN lifts the child lock temporarily until the power is turned off.

Sort

Channel positions can be sorted freely.

1 Repeat steps 1 to 4 in **Programme Setup**.

2 Press ◀/▶ to select “Yes”, and then press **OK**.

3 Press ▲/▼/◀/▶ to select the channel you want to move, and then press **OK**.

4 Press ▲/▼/◀/▶ to move it to the desired position, and then press **OK**.

5 Repeat steps 3 and 4 until all desired channels are sorted.

Erase Programme

An individual programme can be erased.

1 Repeat steps 1 to 4 in **Programme Setup**.

2 Press ◀/▶ to select “Yes”, and then press **OK**.

3 Press ▲/▼/◀/▶ to select the channel you want to erase, and then press **OK**.
- A message screen pops up.

4 Press ◀/▶ to select “Yes”, and then press **OK** to erase the selected programme. All the subsequent programmes move up.

5 Repeat steps 3 and 4 until all desired channels are erased.

Child Lock

TV only

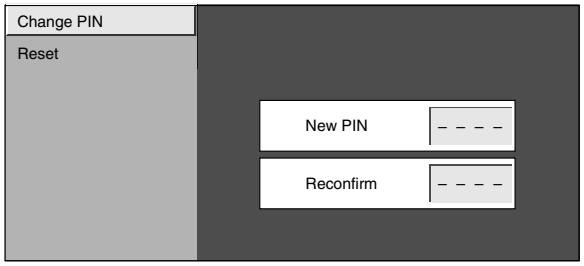
Allow you to use a PIN to protect certain settings from being accidentally changed.

Changing the PIN

1 Press **MENU** and the MENU screen displays.

2 Press ◀/▶ to select “Setup”.

3 Press ▲/▼ to select “Child Lock”, and then press **OK**.



4 Enter the 4-digit number as a PIN using **0** – **9**.

5 Enter the same 4-digit number as in step 4 to confirm.
- “The system PIN has been changed successfully” displays.

NOTE
- To view a locked channel (Lock setting in Programme Setup “Manual Adjust” is set to “On”), you must enter a PIN. (See page 15.) When you select a locked channel, a PIN prompt message pops up. Press **OK** to display the PIN input window.

Resetting the PIN

Allow you to reset your PIN to the factory preset “1234”.

1 Repeat steps 1 to 3 in **Changing the PIN**.

2 Enter the PIN.

3 Press ▲/▼ to select “Reset”, and then press **OK**.

4 Press ◀/▶ to select “Yes”, and then press **OK**.

NOTE
- **As a precautionary measure, make a note of your PIN on the back of this operation manual, cut it out and keep it in a safe place that children cannot reach.**
- **See page 21 for resetting the current PIN to the factory preset “1234” if you lose or forget your PIN.**

Input Label

You can assign each input source a label you like.

1 Press ⏎ to select the desired input source.

2 Press **MENU** and the MENU screen displays.

3 Press ◀/▶ to select “Setup”.

4 Press ▲/▼ to select “Input Label”, and then press **OK**.

5 Press ▲/▼/◀/▶ to select each character of the new name for the input source, and then press **OK**.

6 Repeat step 5 above until the name is fully spelt out, and then press **OK**.
- The name can be 6 characters or less.
- If a label name is less than 6 characters, select “END”, then press **OK**.

NOTE
- You cannot change the label if the input source is TV.

Fine Sync.

PC only

Menu Operation: C (Page 11)

Ordinarily, the TV automatically adjusts image positions coming from PC (Auto Sync. function). In some cases, however, manual adjustment is needed to optimise the image.

Item

H-Pos.: Centres the image by moving it to the left or right.
V-Pos.: Centres the image by moving it up or down.
Clock: Adjusts when the image flickers with vertical stripes.
Phase: Adjusts when characters have low contrast or when the image flickers.

NOTE
- If you need to adjust the image position, adjust the position using your PC.

Position

TV/AV only

Menu Operation: C (Page 11)

For adjusting a picture's horizontal and vertical position.

Item

H-Pos.: Centres the image by moving it to the left or right.
V-Pos.: Centres the image by moving it up or down.

NOTE

- **Adjustments are stored separately according to input source.**
- Depending on the input signal type a position setting may not be available.

WSS (Wide Screen Signalling)

TV/AV only

Menu Operation: A (Page 11)

WSS allows a television to switch automatically among the different screen formats.

NOTE

- Use WIDE MODE if an image does not switch to the correct screen format. When the broadcast signal contains no WSS information, the function will not work even if enabled. (See page 19.)

4:3 Mode

TV/AV only

Menu Operation: A (page 11)

The WSS signal has 4:3 auto-switching that allows you to select between Normal and Panorama.

Item

Normal: Normal range keeping 4:3 or 16:9 aspect ratio
Panorama: Wide image without side bars

WSS signal 4:3 screen

4:3 mode "Normal"

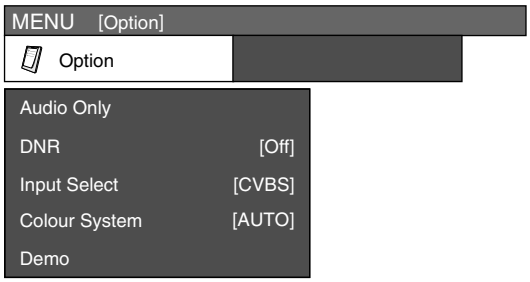
4:3 mode "Panorama"

Language

Menu Operation: A (page 11)

You can select a language from the Setup menu. Select from among 13 languages. (Dutch, English, Finnish, French, German, Greek, Italian, Polish, Portuguese, Russian, Spanish, Swedish, Turkish)

Option menu



NOTE

- "HDMI Setup" is displayed only when "EXT5" is selected from the INPUT SOURCE menu.

Audio Only

Menu Operation: A (page 11)

When listening to music from a music programme, you can set the TV off and enjoy audio only.

Item

Off: Both screen images and audio are output.
On: Audio is output without screen image.

DNR (Digital Noise Reduction) TV/AV only

Menu Operation: A (page 11)

Produce a clearer image. (Off, High, Low)

HDMI Setup AV only

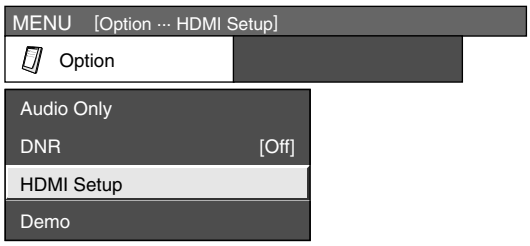
HDMI (High-Definition Multimedia Interface) terminal selection.

1 To watch an HDMI equipment image, select "EXT5" from "INPUT SOURCE" menu using ⏎ on the remote control unit or TV.

2 Press **MENU** and the MENU screen displays.

3 Press ◀/▶ to select "Option".

4 Press ▲/▼ to select "HDMI Setup", and then press **OK**.
- "HDMI Setup" is displayed only when "EXT5" is selected from the INPUT SOURCE menu.



5 Press ▲/▼ to select the desired item, and then press **OK**.

6 Press ▲/▼/◀/▶ to select the desired setting, and then press **OK**.

HDMI Setup items	Selectable items	Description
Signal Type*	RGB/YCbCr 4:4:4/ YCbCr 4:2:2	Select the video signal type from the HDMI terminal.
Colour Matrix*	ITU601/ITU709	Select the internal colour space conversion method when an RGB signal is input.
Dynamic Range*	Normal/ Enhanced	Select the signal amplitude range. Usually, select "Normal".
Auto View	Disable/Enable	Set whether or not to use WIDE MODE based on signal recognition, including an HDMI signal.
Audio Select	Digital/Analogue	Select "Digital" for audio signal via the HDMI terminal. Select "Analogue" for audio signal via the AUDIO jack.

NOTE
- Refer to your external equipment operation manual for the signal type.
- Items with * may be greyed out (with ⃠) depending on the type of signal input from the external equipment.

Input Select

Menu Operation: A (page 11)

For setting the signal type of external equipment.

Input source	Signal type
EXT 1	Y/C, CVBS, RGB
EXT 2	Y/C, CVBS, RGB
EXT 3	AUTO
EXT 4	PC (RGB), COMPONENT (Y, P_B, P_R)

NOTE
- **If no (colour) image displays, try to change the other signal type.**
- Check the operation manual of the external equipment for the signal type.
- TV, EXT3 and EXT5 are not displayed in Input Select.
- If both CVBS and RGB signals are input to EXT 1 or EXT 2 using a SCART cable, the TV may output an RGB signal even though you have designated CVBS for the respective terminal. This happens due to the setting of your external equipment.

Colour System TV/AV only

Menu Operation: A (page 11)

You can change the colour system to one that is compatible with the image on the screen. (AUTO, PAL, SECAM, NTSC3.58, NTSC4.43, PAL-60)

NOTE
- Factory preset value is "AUTO".
- If "AUTO" is selected, colour system for each channel is automatically set. If an image does not display clearly, select another colour system (e.g. PAL, SECAM).
- "NTSC3.58", "NTSC4.43" and "PAL-60" cannot be selected in TV tuner mode.

Demo TV/AV only

Menu Operation: C (page 11)

When activated, this function demonstrates some of the functions of the TV on the screen.

Item

Demo: Sets whether to activate the function.
Input Source: Selects whether to demonstrate all functions of connected terminals or skip some.
Teletext: Sets whether to demonstrate Teletext.
Freeze: Sets whether to demonstrate Freeze.
Menu: Sets whether to demonstrate Menu.
Interval: Sets the interval between the presentations.

NOTE
- Some demonstrations may not be presented depending on the settings made above.
- After switching on this demo function, it takes 70 seconds approximately, before the TV-set starts the demo show. The selected functions are shown in a self-repeating sequence. Return to normal television-mode is possible only by deactivating the demo-function.

Useful features

WIDE MODE

TV/AV only

You can select the picture size. Selectable picture size varies with the type of signal received.

Item (for SD (Standard) signal)

Normal: For 4:3 “standard” pictures. A side bar appears on each side.
Zoom 14:9: For 14:9 letterbox pictures. A thin side bar appears on each side, and you may see bars on the top and bottom with some programmes.
Panorama: In this mode the picture is progressively stretched toward each side of the screen.
Full: For 16:9 squeeze pictures.
Cinema 14:9: For 14:9 letterbox pictures. Bars may appear on the top and bottom with some programmes.
Cinema 16:9: For 16:9 letterbox pictures. Bars may appear on the top and bottom with some programmes.

Item (for HD (High-Definition) signal)

Full: Display with the Overscan image. Crop all sides of screen.

Manual Selection

1 Press ⇔.
- The WIDE MODE menu displays.
- The menu lists the wide mode options selectable for the type of video signal currently received.

2 Press ⇔ or ▲/▼ while the WIDE MODE menu displays on the screen.
- As you toggle down the options, each is immediately reflected on the screen. No need to press **OK**.

Auto Selection

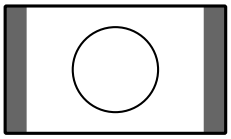
If you set WSS and 4:3 Mode in the Setup menu on page 17, the optimum WIDE MODE is automatically chosen for every broadcast, VCR or DVD containing the WSS information.

WSS menu

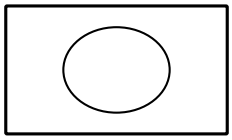
To enable Auto Selection, set WSS in the Setup menu to “On”. (See page 17.)

4:3 Mode menu

To set the type of the wide screen, select “Normal” or “Panorama” in the 4:3 Mode menu. (See page 17.)



4:3 Mode set to “Normal”



4:3 Mode set to “Panorama”

NOTE
- If the signal contains no WSS information, Auto Selection will not function even when the WSS option is enabled.

WIDE MODE

PC only

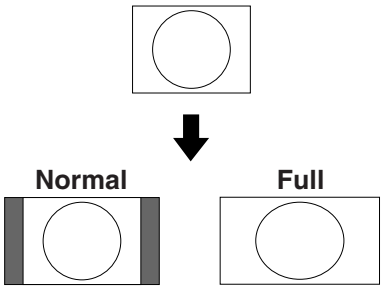
You can select the picture size.

1 Press ⇔.
- The WIDE MODE menu displays.

2 Press ⇔ or ▲/▼ to select a desired item on the menu.

NOTE
- Connect the PC before making adjustments. (See page 9.)
- Selectable picture size may vary with input signal type.

EXAMPLE



Item

Normal: Keeps the original aspect ratio in a full screen display.
Full: An image fully fills the screen.

Still image

You can freeze a motion picture on the screen.

1 Press .

2 Press again to exit still image.

NOTE
- When this function is not available, “No still image display available.” will display.
- The still image automatically goes out after 30 minutes.

Teletext function

What is Teletext?

Teletext broadcasts pages of information and entertainment to specially equipped television sets. Your TV receives Teletext signals broadcast by a TV network, and decodes them into graphical format for viewing. News, weather and sports information, stock exchange prices and programme previews are among the many services available.

Turning on and off Teletext

1 Select a TV channel or external input source providing the Teletext programme.

2 Press to display the Teletext.

3 Press again to display the Teletext on the right screen and normal image on the left screen.
- Each time you press , the screen switches as shown below.

- If you select a programme with no Teletext signal, “No Teletext available.” displays.
- The same message displays during other modes if no Teletext signal is available.

NOTE
- Teletext will not work if the selected signal type is RGB. (See page 18.)

Time display

You can display the time information included in the Teletext broadcasts.

1 Select a TV channel providing Teletext information. (The time information is automatically captured.)

2 Press . The channel display will appear on the TV.

3 Press again within the several seconds that the channel display is on the screen.
Time information will display below the channel display for several seconds.

4 Even when you change the TV channel, you can display the time information with steps 2 and 3 above.

NOTE
- The time display cannot be stored once the power is turned off. When you turn on the power, perform steps 1 to 4 again.
- If acquired successfully, the time information will appear in the upper-right corner of the screen by pressing **MENU**.

Button functions

Buttons	Description
P (∧/∨)	Increase or decrease the page number.
Colour (Red/ Green/Yellow/ Blue)	Select a group or block of pages displayed in the coloured brackets at the bottom of the screen by pressing the corresponding **Colour (Red/Green/Yellow/Blue)** on the remote control unit.
0–9	Directly select any page from 100 to 899 by using **0–9**.
(WIDE MODE)	Switch the Teletext image to Full, Upper half or Lower half.
(Reveal hidden Teletext)	Reveal or hide hidden information such as an answer to a quiz.
(Freeze/ Hold)	Stop updating Teletext pages automatically or release the hold mode.
(Subtitle for Teletext)	Display the subtitle or exit the subtitle screen. • Subtitle will not be displayed when the service does not contain the subtitle information.
(Subpage)	Reveal or hide subpages. • Red button: Move to the previous subpage. • Green button: Move to the following subpage. • These two buttons are shown on the screen by the signs − and +.

Appendix

Troubleshooting

Problem	Possible Solution
• No power.	• Check if you pressed ⏻ I on the remote control unit. (See page 7.) If the indicator on the TV lights up red, press ⏻ I. • Is the AC cord disconnected? (See page 3.) • Check if you pressed ⏻ on the TV. (See page 7.)
• Unit cannot be operated.	• External influences such as lightning, static electricity, etc., may cause improper operation. In this case, operate the unit after first turning the power off, or unplugging the AC cord and re-plugging it in after 1 or 2 minutes.
• Remote control unit does not operate.	• Are batteries inserted with polarity (+, −) aligned? (See page 4.) • Are batteries worn out? (Replace with new batteries.) • Are you using it under strong or fluorescent lighting? • Is a fluorescent light illuminated to remote control sensor?
• Picture is cut off.	• Is the image position correct? (See page 17.) • Are screen mode adjustments (4:3 Mode/WSS) such as picture size made correctly? (See pages 17 and 19.)
• Strange colour, light colour, or dark, or colour misalignment.	• Adjust the picture tone. (See pages 12 and 13.) • Is the room too bright? The picture may look dark in a room that is too bright. • Check the colour system setting. (See pages 15 and 18.) • Check the HDMI Setup setting. (See page 18.)
• Power is suddenly turned off.	• The unit's internal temperature has increased. Remove any objects blocking vent or clean. • Check the power control setting. (See page 14.) • Is sleep timer set? Press **SLEEP** on the remote control unit until it sets to Off.
• No picture.	• Is connection to other components correct? (See page 8 and 9.) • Is input signal type selected correctly after connection? (See page 18.) • Is the correct input source selected? (See page 8.) • Is non-compatible signal being input? (See page 23.) • Is picture adjustment correct? (See pages 12 and 13.) • Is the antenna connected properly? (See page 3.) • Is "On" selected in "Audio Only"? (See page 17.)
• No sound.	• Is the volume too low? (See pages 5 and 6.) • Make sure that headphones are not connected. (See page 6.) • Check if you pressed 🔇 on the remote control unit. (See page 5.)

Cautions regarding use in high and low temperature environments

- When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.
- Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction.
  Storage temperature: –20°C to +60°C.

IMPORTANT NOTE ON RESETTING THE PIN

We suggest that you remove the following instruction from the operation manual to prevent children from reading it. As this operation manual is multilingual, we also suggest the same with each language. Keep it in a safe space for future reference.

1 Repeat steps 1 to 3 in **Changing the PIN**. (See page 16.)

2 Enter "3001" to cancel out the current PIN.
- The PIN resets to the factory preset "1234".

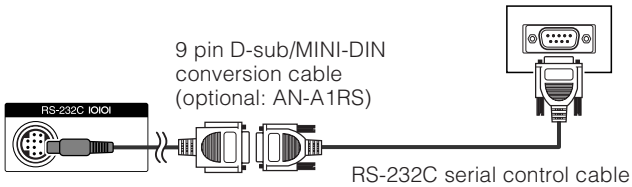
RS-232C port specifications

PC Control of the TV

When a program is set, the TV can be controlled from the PC using the RS-232C terminal. The input signal (PC/video) can be selected, the volume can be adjusted and various other adjustments and settings can be made, enabling automatic programmed playing. Attach an RS-232C cable cross-type (commercially available) to a 9 pin D-sub/MINI-DIN (optional: AN-A1RS) for the connections.

NOTE

- This operation system should be used by a person who is accustomed to using PCs.



Communication conditions

Set the RS-232C communications settings on the PC to match the TV's communications conditions. The TV's communications settings are as follows:

- Baud rate: 9,600 bps
- Data length: 8 bits
- Parity bit: None
- Stop bit: 1 bit
- Flow control: None

Communication procedure

Send the control commands from the PC via the RS-232C connector.
The TV operates according to the received command and sends a response message to the PC.
Do not send multiple commands at the same time. Wait until the PC receives the OK response before sending the next command.

Command format

Eight ASCII codes + CR

C1	C2	C3	C4	P1	P2	P3	P4	↵

Command 4-digits　Parameter 4-digits　Return code

Command 4-digits: Command. The text of four characters.
Parameter 4-digits: Parameter 0 – 9, ×, blank, ?

Parameter

Input the parameter values, aligning left, and fill with blank(s) for the remainder. (Be sure that four values are input for the parameter.)
When the input parameter is not within an adjustable range, "ERR" returns. (Refer to "Response code format".)

0			

–	3	0	

0	0	5	5

0	0	0	9

1	0	0	

When "?" is input for some commands, the present setting value responds.

?			

?	?	?	?

Response code format

Normal response

O	K	↵

Return code (0DH)

Problem response (communication error or incorrect command)

E	R	R	↵

Return code (0DH)

Commands

CONTROL ITEM	COMMAND				PARAMETER				CONTROL CONTENTS
POWER SETTING	P	O	W	R	0	_	_	_	POWER OFF
INPUT SELECTION A	I	T	G	D	_	_	_	_	INPUT SWITCHING (Toggle)
	I	T	V	D	_	_	_	_	TV (CHANNEL FIXED)
	I	A	V	D	*	_	_	_	EXT1 – 5 (1 – 5)
	I	A	V	D	?	?	?	?	1 to 5, ERR (TV)
CHANNEL	D	C	C	H	*	*	_	_	TV DIRECT CHANNEL (1 – 99)
	D	C	C	H	?	?	?	?	1 to 99
	C	H	U	P	_	_	_	_	CHANNEL UP
	C	H	D	W	_	_	_	_	CHANNEL DOWN
INPUT SELECTION B	I	N	P	1	0	_	_	_	EXT1 (Y/C)
	I	N	P	1	1	_	_	_	EXT1 (CVBS)
	I	N	P	1	2	_	_	_	EXT1 (RGB)
	I	N	P	1	?	?	?	?	0 to 2
	I	N	P	2	0	_	_	_	EXT2 (Y/C)
	I	N	P	2	1	_	_	_	EXT2 (CVBS)
	I	N	P	2	2	_	_	_	EXT2 (RGB)
	I	N	P	2	?	?	?	?	0 to 2
	I	N	P	3	0	_	_	_	EXT3
	I	N	P	4	0	_	_	_	EXT4 (RGB)
	I	N	P	4	1	_	_	_	EXT4 (COMPONENT)
	I	N	P	4	?	?	?	?	0 to 1
	I	N	P	5	0	_	_	_	EXT5 (HDMI)
AV MODE SELECTION	A	V	M	D	0	_	_	_	AV MODE SELECTION (Toggle)
	A	V	M	D	1	_	_	_	STANDARD
	A	V	M	D	2	_	_	_	SOFT
	A	V	M	D	3	_	_	_	ECO
	A	V	M	D	4	_	_	_	USER
	A	V	M	D	5	_	_	_	DYNAMIC
	A	V	M	D	?	?	?	?	1 to 5
VOLUME	V	O	L	M	*	*	_	_	VOLUME (0 – 60)
	V	O	L	M	?	?	?	?	0 to 60
POSITION	H	P	O	S	*	*	*	_	H-POSITION AV (– 10 – + 10)
	H	P	O	S	?	?	?	?	AV (– 10 – + 10)
	V	P	O	S	*	*	*	_	V-POSITION AV (– 20 – + 20)
	V	P	O	S	?	?	?	?	AV (– 20 – + 20)
	C	L	C	K	*	*	*	_	CLOCK (0 – 180)
	C	L	C	K	?	?	?	?	0 to 180
	P	H	S	E	*	*	_	_	PHASE (0 – 40)
	P	H	S	E	?	?	?	?	0 to 40
WIDE MODE	W	I	D	E	0	_	_	_	WIDE MODE (Toggle)
	W	I	D	E	1	_	_	_	NORMAL (AV)
	W	I	D	E	2	_	_	_	ZOOM 14:9 (AV)
	W	I	D	E	3	_	_	_	PANORAMA (AV)
	W	I	D	E	4	_	_	_	FULL (AV)
	W	I	D	E	5	_	_	_	CINEMA 16:9 (AV)
	W	I	D	E	6	_	_	_	CINEMA 14:9 (AV)
	W	I	D	E	9	_	_	_	NORMAL (PC)
	W	I	D	E	1	0	_	_	FULL (PC)
	W	I	D	E	?	?	?	?	1 to 10
MUTE	M	U	T	E	0	_	_	_	MUTE (Toggle)
	M	U	T	E	1	_	_	_	MUTE ON
	M	U	T	E	2	_	_	_	MUTE OFF
	M	U	T	E	?	?	?	?	1 to 2
SURROUND	A	C	D	V	0	_	_	_	SURROUND (Toggle)
	A	C	D	V	1	_	_	_	SURROUND ON
	A	C	D	V	2	_	_	_	SURROUND OFF
	A	C	D	V	?	?	?	?	1 to 2
AUDIO CHANGE	A	C	H	A	_	_	_	_	SOUND SELECT (ST/Bilingual/mono)
SLEEP TIMER	O	F	T	M	0	_	_	_	OFF
	O	F	T	M	1	_	_	_	30 m
	O	F	T	M	2	_	_	_	1 h 00 m
	O	F	T	M	3	_	_	_	1 h 30 m
	O	F	T	M	4	_	_	_	2 h 00 m
	O	F	T	M	5	_	_	_	2 h 30 m
	O	F	T	M	?	?	?	?	0 to 150
TEXT	T	E	X	T	0	_	_	_	TEXT OFF
	T	E	X	T	1	_	_	_	TEXT CHANGE (Toggle)
	T	E	X	T	?	?	?	?	0 to 1
	D	C	P	G	*	*	*	_	DIRECT PAGE JUMP (100 – 899)
	D	C	P	G	?	?	?	?	100 to 899

NOTE

- If an underbar (_) appears in the parameter column, enter a space.
- If an asterisk (*) appears, enter a value in the range indicated in brackets under CONTROL CONTENTS.

Specifications

Item			26″ LCD COLOUR TV, Model: LC-26SA1E, LC-26SV1E	32″ LCD COLOUR TV, Model: LC-32SA1E, LC-32SV1E
LCD panel			26″ Advanced Super View & BLACK TFT LCD	32″ Advanced Super View & BLACK TFT LCD
Number of dots			3,147,264 dots (1366 × 768 × 3 dots)	
Video Colour System			PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60	
TV Function	TV-Standard (CCIR)		B/G, I, D/K, L, L'	
	Receiving Channel	VHF/UHF	E2–E69ch, F2–F10ch, I21–I69ch, IR A–IR Jch	
		CATV	Hyper-band, S1–S41ch	
	TV-Tuning System		Auto Preset 99 ch, Auto Label, Auto Sort	
	STEREO/BILINGUAL		NICAM/A2	
Brightness			450 cd/m²	
Backlight life			60,000 hours (at Backlight Standard position)	
Viewing angles			H : 176° V : 176°	
Audio amplifier			10W × 2	
Speaker			130 mm × 60 mm	
Terminals	Rear	Antenna input	UHF/VHF 75Ω Din type	
		RS-232C	9 pin MINI-DIN male connector	
		EXT 1	SCART (AV input, Y/C input, RGB input, TV output)	
		EXT 2	SCART (AV input/output, Y/C input, RGB input, AV Link)	
		EXT 3	S-VIDEO (Y/C input), RCA pin (AV input)	
		EXT 4	Ø 3.5 mm jack (Audio input), 15 pin mini D-sub (PC/Component)	
		EXT 5	HDMI, Ø 3.5 mm jack (Audio input)	
		OUTPUT	RCA pin (Audio)	
		Headphones	Ø 3.5 mm jack (Audio output)	
OSD language			English/German/French/Italian/Spanish/Dutch/Swedish/Portuguese/Finnish/Turkish/Greek/Russian/Polish	
Power Requirement			AC 220–240 V, 50 Hz	
Power Consumption			102 W (0.9 W Standby) (Method IEC60107)	125 W (0.9 W Standby) (Method IEC60107)
Weight			13.0 kg (Display only), 15.2 kg (Display with stand)	17.9 kg (Display only), 20.1 kg (Display with stand)
Operating temperature			0°C to +40°C	

- As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

NOTE

- Refer to inside back cover for dimensional drawings.

Optional accessories

The listed optional accessories are available for the LCD colour TV. Please purchase them at your nearest shop.

- Additional optional accessories may be available in near future. When purchasing, please read the newest catalogue for compatibility and check the availability.

No.	Part name	Part number
1	Wall mount bracket (LC-26SA1E, LC-26SV1E)	AN-26AG1
2	Wall mount bracket (LC-32SA1E, LC-32SV1E)	AN-37AG2
3	9 pin D-sub/MINI-DIN conversion cable	AN-A1RS

PC compatibility chart

Resolution		Horizontal Frequency	Vertical Frequency	VESA Standard
VGA	640 × 480	31.5 kHz	60 Hz	✓
SVGA	800 × 600	37.9 kHz	60 Hz	✓
XGA	1024 × 768	48.4 kHz	60 Hz	✓

VGA, SVGA and XGA are registered trademarks of International Business Machines Co., Inc.

NOTE

- This TV has only limited PC compatibility, correct operation can only be guaranteed if the video card conforms exactly to the VESA 60Hz standard. Any variations from this standard will result in picture distortions.

A. Information on Disposal for Users (private households)

Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

1. In the European Union

Attention: If you want to dispose of this equipment, please do not use the ordinary dust bin!

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.
Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one.
*) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

2. In other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the homepage of www.swico.ch or www.sens.ch.

B. Information on Disposal for Business Users

1. In the European Union

If the product is used for business purposes and you want to discard it:

Please contact your SHARP dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.

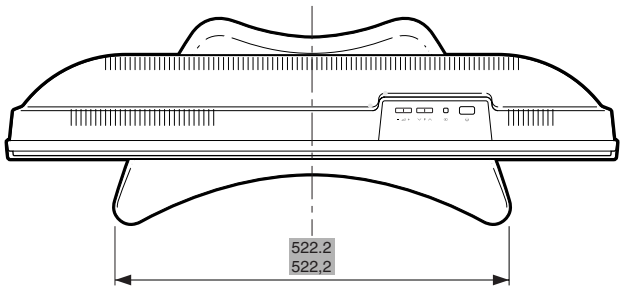
For Spain: Please contact the established collection system or your local authority for take-back of your used products.

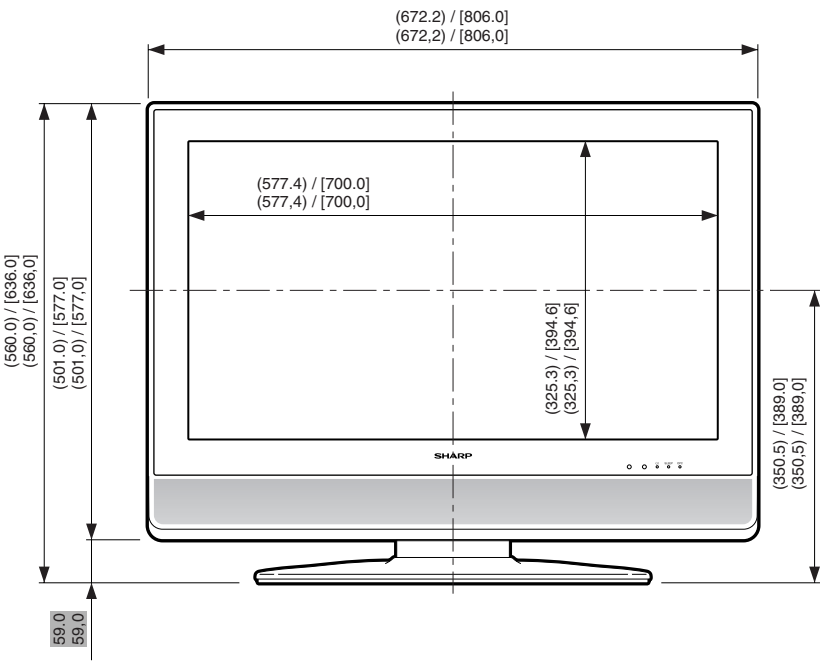
2. In other Countries outside the EU

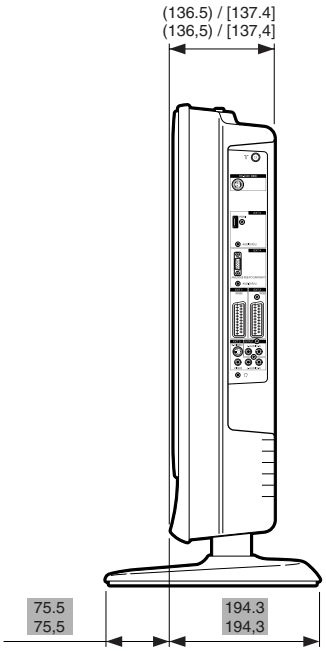
If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.

LC-26SA1E / LC-26SV1E / LC-32SA1E / LC-32SV1E

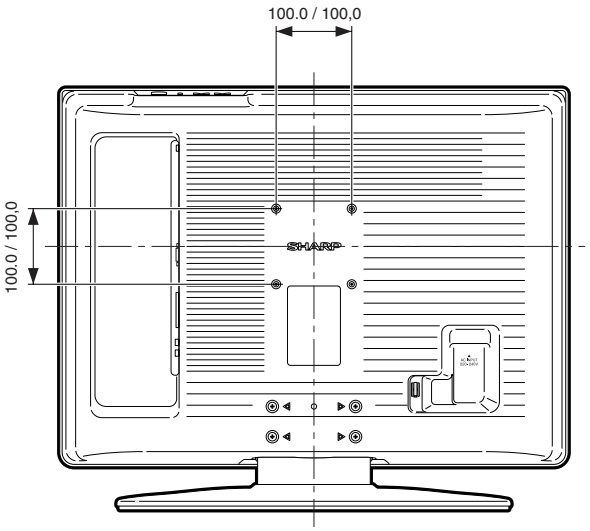
( ) : LC-26SA1E
LC-26SV1E
[ ] : LC-32SA1E
LC-32SV1E
: LC-26SA1E
LC-26SV1E
LC-32SA1E
LC-32SV1E



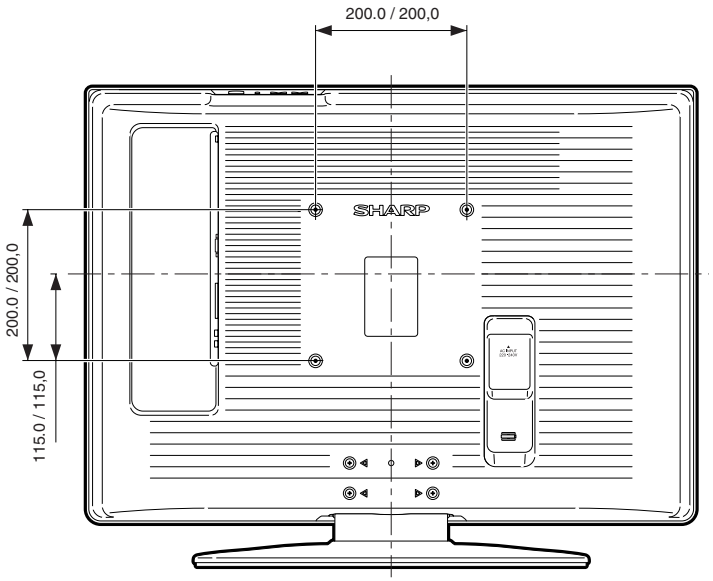




LC-26SA1E / LC-26SV1E



LC-32SA1E / LC-32SV1E



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